

ANNALS *of* PHYSICS

Editor

Herman Feshbach

Assistant Editors

A. Dalgarno

Roman W. Jackiw

Henry Ehrenreich

Arthur M. Jaffe

Editorial Council

A. Arima

L. Kadanoff

R. V. Pound

D. Brink

S. E. Koonin

D. Scalapino

S. Deser

Y. Nambu

F. Wilczek

J. Eisenberg

L. Okun

C. M. Will

J. A. Golovchenko

J. P. Ostriker

K. Wilson

Founding Editors

Philip M. Morse

Bernard T. Feld Herman Feshbach Richard Wilson

VOLUME 241 • 1995



ACADEMIC PRESS

San Diego New York Boston
London Sydney Tokyo Toronto

Copyright © 1995 by Academic Press, Inc.

ALL RIGHTS RESERVED

No part of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopy, recording, or any information storage and retrieval system, without permission in writing from the copyright owner.

The appearance of the code at the bottom of the first page of an article in this journal indicates the copyright owner's consent that copies of the article may be made for personal or internal use, or for the personal or internal use of specific clients. This consent is given on the condition, however, that the copier pay the stated per copy fee through the Copyright Clearance Center, Inc. (222 Rosewood Drive, Danvers, Massachusetts 01923), for copying beyond that permitted by Sections 107 or 108 of the U.S. Copyright Law. This consent does not extend to other kinds of copying, such as copying for general distribution, for advertising or promotional purposes, for creating new collective works, or for resale. Copy fees for pre-1995 articles are as shown on the article title pages; if no fee code appears on the title page, the copy fee is the same as for current articles.

0003-4916/95 \$12.00

This journal is printed on acid-free paper.



Printed by Catherine Press, Ltd., Brugge, Belgium

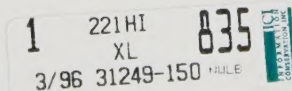
CONTENTS OF VOLUME 241

NUMBER 1, JULY 1995

L. S. CELENZA, C. M. SHAKIN, WEI-DONG SUN, J. SZWEDA, AND XIQUAN ZHU. Quark Model Calculations of Current Correlators in the Non-perturbative Domain	1
C. M. SHAKIN, WEI-DONG SUN, AND J. SZWEDA. Interpolation between the Low-Energy and the High-Energy Behavior of Hadronic Current Correlation Functions	37
E. CELEGHINI, S. DE MARTINO, S. DE SIENA, M. RASETTI, AND G. VITIELLO. Quantum Groups, Coherent States, Squeezing and Lattice Quantum Mechanics	50
SUBIR MUKHOPADHYAY AND P. MITRA. Physical Solution of Chiral Schwinger Model with New Regularization	68
T. A. OSBORN AND F. H. MOLZAHN. Moyal Quantum Mechanics: The Semiclassical Heisenberg Dynamics	79
SHAWN J. KOLITCH AND DOUGLAS M. EARDLEY. Behavior of Friedmann–Robertson–Walker Cosmological Models in Scalar–Tensor Gravity	128
RICCARDO GUIDA, KENICHI KONISHI, AND HIROSHI SUZUKI. Convergence of Scaled Delta Expansion: Anharmonic Oscillator.	152
ARTHUR K. KERMAN AND CHI-YONG LIN. Time-Dependent Variational Principle for ϕ^4 Field Theory. I. RPA Approximation and Renormalization	185
A. RUBIN AND J. R. KLAUDER. The Comparative Roles of Connected and Disconnected Trajectories in the Evaluation of the Semiclassical Coherent-State Propagator.	212
ABSTRACTS OF PAPERS TO APPEAR IN FUTURE ISSUES	235

NUMBER 2, AUGUST 1, 1995

N. BANERJEE, R. BANERJEE, AND SUBIR GHOSH. Quantisation of Second Class Systems in the Batalin–Tyutin Formalism	237
VINCENZO GRECCI AND ANDREA SACCHETTI. Crossing and Anticrossing of Resonances: The Wannier–Stark Ladders.	258
D. WAXMAN. The Fredholm Determinant for a Dirac Hamiltonian with a Topological Mass Term	285
A. NYFFELER AND A. SCHENK. Effective Field Theory of the Linear $O(N)$ Sigma Model.	301
RICHARD D. BALL AND ROBERT S. THORNE. Infrared and Ultraviolet Behaviour of Effective Scalar Field Theory	337



RICHARD D. BALL AND ROBERT S. THORNE. The Decoupling Theorem in Effective Scalar Field Theory	368
B. A. FAIZULLAEV AND M. M. MUSAKHANOV. Two-Loop Effective Action for Theories with Fermions.	394
NAMIK K. PAK, M. P. REKALO, AND T. YILMAZ. Radiative Decay of Polarized τ -Leptons, $\tau^- \rightarrow \nu_\tau + \pi^- + \gamma$	416
NAMIK K. PAK, M. P. REKALO, AND T. YILMAZ. Radiative τ -Lepton Decay $\tau^- \rightarrow \nu_\tau + \pi^- + \gamma$	447
ALFREDO IORIO AND GIUSEPPE VITIELLO. Quantum Dissipation and Quantum Groups	396
ABSTRACTS OF PAPERS TO APPEAR IN FUTURE ISSUES	507
AUTHOR INDEX FOR VOLUME 241	509